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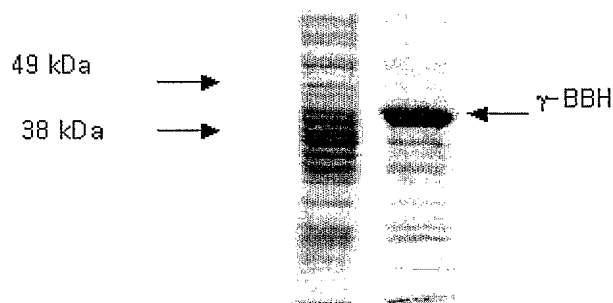
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[Continued on next page]

(54) Title: GAMMA-BUTYROBETAINE HYDROXYLASE ORIGINATED FROM NEUROSPORA CRASSA



Lane 1 : Protein molecular size marker,

Lane 2 : E.coli BL21 w/o γ -BBH gene,

Lane 3 : E.coli BL21 w/ γ -BBH gene and induced by 1mM IPTG

(57) Abstract: Disclosed is a polynucleotide encoding γ -butyrobetaine hydroxylase (γ -BBH) originating from Neurospora crassa. Also disclosed are a recombinant vector comprising the polynucleotide, a transformant transformed with the recombinant vector, γ -BBH encoded by the polynucleotide, and a method of preparing L-carnitine, which comprises hydroxylating γ -butyrobetaine using γ -BBH encoded by the polynucleotide.

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